INTERNATIONAL SEARCH REPORT

PCT/EP2004/012577

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F04D17/12 F04D29/62

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 FO4D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Calegory	Calation of document, with indication, where appropriate, of the relevant passages	neisvailt to dailli No.
Α	CH 350 408 A (GEBRUEDER SULZER, AKTIENGESELLSCHAFT) 30 November 1960 (1960-11-30) page 2, line 41 - line 97; figure 1	. 1–5
Α	GB 765 145 A (SULZER FRERES) 2 January 1957 (1957-01-02) page 2, line 25 - line 60; figure 1	1,3-5
A	GB 754 322 A (SULZER FRERES, SOCIETE ANONYME) 8 August 1956 (1956-08-08) page 2, line 105 - page 3, line 12; figure 1	1,3-5
A	US 3 861 825 A (BLOM ET AL) 21 January 1975 (1975-01-21) column 3, line 10 - column 6, line 21; figure 2	1,2,4,5

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance E' earlier document but published on or after the international filling date L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O' document referring to an oral disclosure, use, exhibition or other means P' document published prior to the international filling date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
23 February 2005	04/03/2005
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Di Giorgio, F

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A	US 4 715 778 A (KATAYAMA ET AL) 29 December 1987 (1987-12-29) column 4, line 51 - column 6, line 16; figure 1	1,3-5
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